

Wildlife in Danger



Lyme Bay
Fisheries and
Conservation Reserve

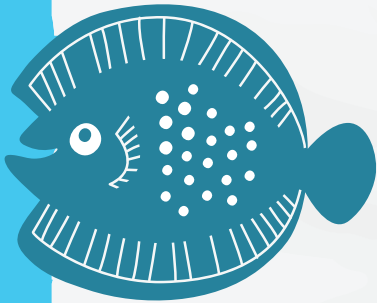
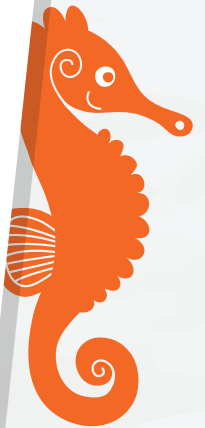


Lesson Plan & Extensions Activities

KS3 & KS4



- Lesson objectives
- Resources needed
- Activities
- Further learning opportunities



BLUE MARINE
FOUNDATION

Brought to you by the Blue Marine Foundation.

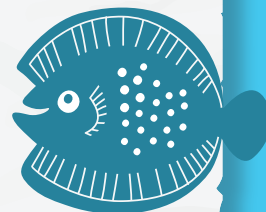
Wildlife in Danger



Aim: To understand the importance of Lyme Bay as a fishery and to appreciate how fragile the habitat is and why it needs to be protected.

Resources needed

- Powerpoint
- 2 x sand boxes (could be done with 1 if needed)
- 1 x small plastic rake
- 6 x scallops
- Some plastic reef plants
- Fishing nets of different sizes
- Model fish



Lesson Plan

Use powerpoint to set the scene – wildlife under the waves in Lyme Bay.

Bring back to context, fishing in Lyme Bay. What commercial species are there in Lyme bay?

Show a scallop, do they know what it is? Do they know where they live? Do they know how they are caught?

Show how most are caught: by dredging. Explain how it works using visual aids.

Demo dredging using sand box and rake. Explain habitat destruction. Nice and visual, can get volunteers to help.

Emphasise reef destruction using powerpoint images before and after

Why are the reefs important?

- Home to rare and important species
- Pink sea fan
- Corals
- Act as nurseries for young fish
- Help provide hiding places from predators
- Help stabilise the sea floor
- Good habitat for shellfish and crustations (scallops, crabs, mussels, lobsters)

Explain we can still eat the scallops from Lyme Bay by diving for them.

Demo using sand box again but this time no rake, just hands carefully searching for scallops.

Case study: dredging has been banned in Lyme Bay since 2008. What has happened since then? Reef recovery, increase in number of species and in abundance within species. Also quality of fish has improved.

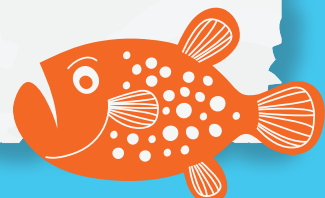
Discuss other things that may affect the habitat and species in Lyme Bay

- Over fishing
- Catching undersized fish
- Litter
- Pollution

What else can we do to help protect the habitat and the species in Lyme Bay?

- Sizes of fishing nets
- Sea bed surveys for potting
- Cap on pot numbers
- Take litter away with you or use a bin

Demo fishing net sizes to finish.





Extension Activities

Resources:

- Fact cards
- Images of reef before and after dredging and scallop diving and dredging.

Discussion Task – Dredging the coral reefs of Lyme Bay (images in resource pack)

Questions to aid discussion:

- What might happen if this area was dredged too much?
- How could you prevent too much damage from happening to the scallop habitat?

(note: Dredging has been banned in Lyme Bay since 2008. The images however, are real and are from Lyme bay before dredging was banned)

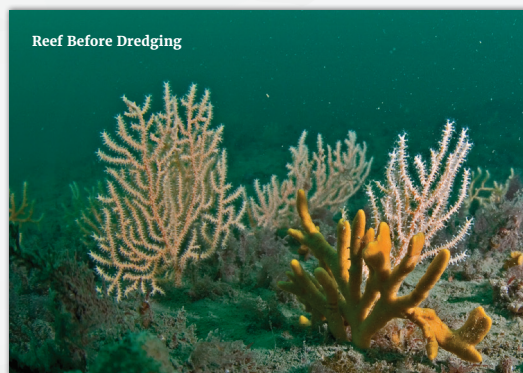
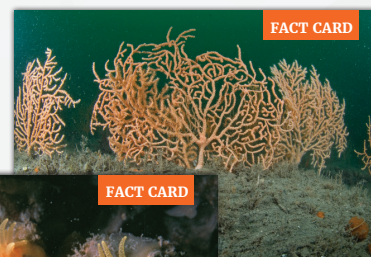
Display

Fact cards can be used to help make a display on how Lyme Bay is special or can be used in addition to other research on marine life for a more general display depending on the the topics being cover that year.

Literacy Tasks

Fact cards can be used as a skim, scan, select tool or they can be broken down in to components by cutting them up and pupils can work as a group to put a complete card together.

Using the information from the discussion and the images of dredging (included in the pack) complete a piece of persuasive writing to either their parents or the school explaining why they should buy hand dived scallops (low to mid ability based on outcome) or to a scallop fisherman with a dredge boat explaining why he should invest in hand diving for scallops (high ability).





The Schools Outreach Programme is delivered by the Lyme Bay Fisheries and Conservation Reserve – a marine reserve in Lyme Bay, which straddles the border between Dorset and Devon and is funded by Marks and Spencer.

The Lyme Bay Reserve is facilitated by the Blue Marine Foundation (BLUE) – a marine conservation charity which aims to solve the crisis in the oceans through providing innovative solutions to overfishing and enabling the creation of marine reserves.

BLUE's pioneering work in Lyme Bay uniquely engages fishermen to take a lead role in the conservation of their fishery providing long term benefits to marine life, fishers and the local community. In celebration, BLUE has established a Schools Outreach Programme to inform the wider public – young and old – about the quiet revolution that has happened on their doorstep.

For more information about our School's Outreach Programme email: info@lymebayreserve.co.uk or visit www.lymebayreserve.co.uk/education



We'd love to hear what you thought...

We are constantly improving our Schools Outreach Programme and your feedback would be extremely beneficial to us. Please take five minutes to fill in the feedback form emailed to you once you have tried out these activities so that they can be improved as necessary to make the activities the best they can be – thank you.



Facilitated by the Blue Marine Foundation



Funded by Marks & Spencer



JUNE21